



PTO 1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

LIST OF PRIOR ART CITED BY APPLICANT

ATTY. DOCKET NO.
EOS-010 (5066-4010)SERIAL NO.
09/032,450

APPLICANT

GUTKOWICZ-KRUSIN ET AL.

FILING DATE
February 27, 1998GROUP
221 2723

U.S. PATENT DOCUMENTS

Examiner Initial	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
MD	AA	5	7	4	9	8	3	0	5/1998	Kaneko et al.	600	160	10/94
MD	AB	5	7	0	1	9	0	2	12/1997	Vari et al.	600	473	12/94
MD	AC	5	6	9	9	7	9	8	12/1997	Hochman et al.	600	420	06/95
MD	AD	5	5	9	0	6	6	0	1/1997	MacAulay et al.	600	478	03/94
MD	AE	5	5	2	8	7	0	3	6/1996	Lee	382	257	
MD	AF	5	5	1	5	4	4	9	5/1996	Tsuruoka et al.	382	128	
MD	AG	5	4	2	1	3	3	7	6/1995	Richards-Kortum et al.	600	477	
MD	AH	5	4	0	8	9	9	4	4/1995	Salb	600	317	
MD	AI	5	3	4	9	4	9	4	11/1994	Alfano et al.	600	477	
MD	AJ	5	3	6	3	8	5	4	11/1994	Martens et al.	600	477	
MD	AK	5	2	4	1	4	6	8	8/1993	Kenet	600	300	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	Translation Yes No
MD	AL	0	6	5	0	6	9	4	5/1995	Europe	A61B	5/00	X
MD	AM	0	3	5	9	4	3	3	3/1990	Europe	A61B	5/05	X
	AN												
	AO												
	AP												

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

MD	AR	"Border irregularity: atypical moles versus melanoma", C.L. Huang et al., Eur J Dermatol, Vol. 6, pp. 270-273, June 1996
MD	AS	"In vivo Spectrophotometric Evaluation of Neoplastic and Non-Neoplastic Skin Pigmented Lesions. III. CCD Camera-Based Reflectance Imaging", R. Marchesini et al., Photochemistry and Photobiology, Vol. 62, No. 1, pp. 151-154; 1995
MD	AT	"The Morphologic Criteria of the Pseudopod in Surface Microscopy", S.W. Menzies, et al., Arch Dermatol, Vol. 131, pp. 436-440, April 1995

EXAMINER

Deborah Dastur

DATE CONSIDERED

9/25/99

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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				FILING DATE February 27, 1998		GROUP 2212723							
U.S. PATENT DOCUMENTS													
Examiner Initial		DOCUMENT NUMBER			DATE	D NAME	CLASS SUBCLASS FILING DATE IF APPROPRIATE						
MD	AA	5	1	7	4	2	9	7	12/1992	Aikuzono	600	476	
MD	AB	5	0	3	6	8	5	3	8/1991	Jeffcoat et al.	600	342	
MD	AC	5	0	0	3	9	7	7	4/1991	Suzuki et al.	600	317	
MD	AD	4	9	5	7	1	1	4	9/1990	Zeng et al.	600	476	
MD	AE	4	9	3	0	5	1	6	6/1990	Alfano et al.	600	477	
MD	AF	4	8	9	4	5	4	7	1/1990	Leffell et al.	250	461.2	
MD	AG	4	8	2	1	1	1	7	4/1989	Sekiguchi	348	68	
MD	AH	4	7	7	3	0	9	7	9/1988	Suzaki et al.	382	128	
MD	AI	4	7	6	8	5	1	3	9/1988	Suzuki XXXXXX	600	476	
MD	AJ	4	5	5	6	0	5	7	12/1985	Hiruma et al.	600	476	
MD	AK	4	5	0	5	5	8	3	3/1985	Konomi	356	73	
FOREIGN PATENT DOCUMENTS													
		DOCUMENT NUMBER			DATE	COUNTRY	CLASS SUBCLASS Translation Yes No						
	AL												
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	AP												
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)													
MD	AR	"A rudimentary system for automatic discrimination among basic skin lesions on the basis of color analysis of video images", H. Takiwaki et al., Journal of the American Academy of Dermatology, Vol. 32, No. 4, pp. 600-604, April 1995											
MD	AS	"Topodermatographic Image Analysis for Melanoma Screening and the Quantitative Assessment of Tumor Dimension Parameters of the Skin", H. Voigt et al., CANCER, Vol. 75, No. 4, February 15, 1995											
MD	AT	"Application of an artificial neural network in epiluminescence microscopy pattern analysis of pigmented skin lesions: a pilot study", M. Binder et al., British Journal of Dermatology 130: pp. 460-465; 1994											
EXAMINER <u>Meredith Pastore</u>		DATE CONSIDERED <u>9/25/99</u>											
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LIST OF PRIOR ART CITED BY APPLICANT								APPLICANT GUTKOWICZ-KRUSIN ET AL.		
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Examiner Initial		DOCUMENT NUMBER .		DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE					
MD	AA	4	2	3	6	0	8	2	11/1980	Butler	250	461.1	
MD	AB	4	1	7	0	9	8	7	10/1979	Anselmo et al.	600	475	
MD	AC	3	3	3	5	7	1	6	8/1967	Alt et al.	-	-	
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	AL							
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

MD	AR	"Computer image analysis in the diagnosis of melanoma", A. Greene et al., Journal of the American Academy of Dermatology; Vol. 31, No. 6, pp. 958-964, 1994
MD	AS	"Computerized Digital Image Analysis: An Aid for Melanoma Diagnosis", A.J. Sober et al., The Journal of Dermatology, Vol. 21, pp. 885-890, 1994
MD	AT	"Neural Network Diagnosis of Malignant Melanoma From Color Images", F. Ercal et al., IEEE Transactions of Biomedical Engineering, Vol. 41, No. 9, pp. 837-845, September 1994

EXAMINER <u>Marked Dastur</u>	DATE CONSIDERED <u>9/26/99</u>
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	AL							
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>MD</i>	AR	"The ABCD rule of dermatology", F. Nachbar et al., Journal of the American Academy of Dermatology, Vol. 3, No. 4, pp. 551-559, April 1994
<i>MD</i>	AS	"Evaluation of different image acquisition techniques for a computer vision system in the diagnosis of malignant melanoma", T. Schindewolf et al., Journal of the American Academy of Dermatology, Vol. 31, No. 1, pp. 33-41, July 1994
<i>MD</i>	AT	"Detection of Skin Tumor Boundaries in Color Images", F. Ercal et al., IEEE Transactions of Medical Imaging, Vol. 12, No. 3, pp. 624-627, September 1993

EXAMINER <i>Deborah Dastan</i>	DATE CONSIDERED <i>9/25/99</i>
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>MD</i>	<i>AR</i>	"Automatic Color Segmentation Algorithms with Application to Skin Tumor Feature Identification", S.E. Umbagh et al., IEEE Engineering in Medicine and Biology, pp. 75-82, September, 1993
<i>MD</i>	<i>BS</i>	"Comparison of classification rates for conventional and dermatoscopic images of malignant and benign melanocytic lesions using computerized colour image analysis", T. Schindewolf et al., Eur J Dermatol, Vol. 3, No. 4, pp. 299-303, May 1993
<i>MD</i>	<i>AT</i>	"Classification of Melanocytic Lesions with Color and Texture Analysis Using Digital Image Processing", T. Schindewolf et al., The International Academy of Cytology, Analytical and Quantitative Cytology and Histology, Vol. 15, No. 1, pp. 1-11, February 1993

EXAMINER <i>Richard Pastorek</i>	DATE CONSIDERED <i>9/25/99</i>
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<u>MD</u>	AR	"Clinical Diagnosis of Pigmented Lesions Using Digital Epiluminescence Microscopy", R.O. Kenedy et al., Arch Dermatol, Vol. 129, pp. 157-174; February 1993						
		AS	"Optical properties of human dermis in vitro and in vivo", R. Graaff et al., Applied Optics, Vol. 32, No. 4, pp. 435-447, February 1, 1993					
<u>MD</u>	AT	"Automatic Detection of Irregular Borders in Melanoma and Other Skin Tumors", J.E. Golston et al., Computerized Medical Imaging and Graphics, Vol. 16, No. 3, pp. 199-203, 1992						

EXAMINER <u>Sheri Dastin</u>	DATE CONSIDERED <u>9/25/99</u>
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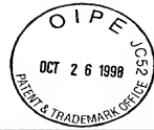
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>MD</i>	AR	"Automatic Detection of Asymmetry in Skin Tumors", W.V. Stoecker et al., Computerized Medical Imaging and Graphics, Vol. 16, No. 3, pp. 191-197, 1992
<i>MD</i>	AS	"Results obtained by using a computerized image analysis system designed as an aid to diagnosis of cutaneous melanoma", N. Cascinelli et al., Melanoma Research, Vol. 2, pp. 163-170, 1992
<i>MD</i>	AT	"An Automatic Color Segmentation Algorithm with Application to Identification of Skin Tumor Borders", S.E. Umbaugh et al., Computerized Medical Imaging and Graphics, Vol. 16, No. 3, pp. 227-235, May-June 1992

EXAMINER <i>Mehrad Dastur</i>	DATE CONSIDERED <i>9/25/99</i>
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>MD</i>	AR ↓	"Automatic Color Segmentation of Images with Application to Detection of Variegated Coloring in Skin Tumors". S.W. Umbaugh et al., IEEE Engineering in Medicine and Biology Magazine, December 1989, pp. 43-52
<i>MD</i>	AS ↓	"Multispectral Imaging of Burn Wounds: A New Clinical Instrument for Evaluating Burn Depth". M.A. Aframowitz et al., IEEE Transactions on Biomedical Engineering, Vol. 35, No. 10, pp. 842-850; October 1988
<i>MD</i>	AT ↓	"In vivo epiluminescence microscopy of pigmented skin lesions. I. Pattern analysis of pigmented skin lesions". H. Pehamberger et al., Journal of American Academy of Dermatology, Vol. 17, No. 4, pp. 571-583. October 1987

EXAMINER <i>Mehrdad Dastur</i>	DATE CONSIDERED <i>9/25/99</i>
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(3)				FILING DATE February 27, 1998	GROUP <u>27272723</u>

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AO								
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>MD</i>	AR	"In vivo epiluminescence microscopy of pigmented skin lesions. II. Diagnosis of small pigmented skin lesions and early detection of malignant melanoma", A. Steiner et al., Journal of the American Academy of Dermatology, Vol. 17, No. 4, pp. 584-591; October 1987
<i>MD</i>	A↓	"The Optics of Human Skin", R.R. Anderson et al., The Journal of Investigative Dermatology, Vol. 77, No. 1, pp. 13-19; July 1981
<i>MD</i>	AT	"Melanin, a unique biological absorber", M.L. Wolbarsht, Applied Optics, Vol. 20, No. 13, pp. 2184-2186; July 1, 1981

EXAMINER Marked Partain DATE CONSIDERED 9/25/99

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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>MD</i>	AR	"The Wavelet Transform, Time-Frequency Localization and Signal Analysis", I. Daubechies, IEEE Trans Inform Theory, Vol. 36, No. 5, pp. 961-1005; September 1990
		"Wavelet in Medicine and Biology", Aldroubi et al., C&C Press, NY, pp., 11-15, 1996
<i>MD</i>	AS	"Singularity detection and processing with wavelets", S. Mallat et al., IEEE Trans Inform Theory 38:617-643; 1992
<i>MD</i>	AT	"Singularity detection and processing with wavelets", S. Mallat et al., IEEE Trans Inform Theory 38:617-643; 1992

EXAMINER <i>Marked Darbari</i>	DATE CONSIDERED <i>9/25/99</i>
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<u>MD</u>	AR	"Wavelets and Applications", S. Mallat et al., S. Verlag; Y. Meyer (ed.) NY pp. 207-284; 1992
<u>MD</u>	AS	"Characterization of signals from multiscale edges", S. Mallat et al., IEEE Trans Patt and Mech Int'l; 14:710-732; 1992
<u>MD</u>	AT	"Introduction to Statistical Pattern Recognition", K. Fukunaga, Academic Press, Boston,
		pp. 18-96, 125, 219-221; 1990

EXAMINER <u>Harold Dastur</u>	DATE CONSIDERED <u>9/25/99</u>
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>MD</i>	AR	"Image Features From Phase Congruency", P. Kovesi, University of Western Australia,
		pp. 1-30; Technical Report 9/4, Revised June 1995
	AS	
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Sheet 1 of 2

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
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5066-4010SERIAL NO.
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INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANTS:

GUTKOWICZ-KRUSIN et al.

FILING DATE
February 27, 1998GROUP ART UNIT
2721

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MD	5,799,100	8/25/98	Clarke et al.	382	132	
MD	5,784,162	7/21/98	Cabib et al.	356	346	RECEIVED
MD	5,740,268	4/14/98	Nishikawa et al.	382	132	JUN 03 1999
MD	5,717,791	2/10/98	Labaere et al.	382	274	Group 2700
MD	5,157,461	10/20/92	Page	356	350	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

MD		S.X. Zhao and T. Lu, "The Classification of the Depth of Burn Injury Using Hybrid Neural Network"; IEEE Conference on Engineering in Medicine & Biology Society, ISBN 7803-2475-7, Vol. 1, pp. 815-816, July, 1997
MD		I. Koren, A. Laine, F. Taylor, M. Lewis, "Interactive Wavelet Processing and Techniques Applied to Digital Mammography"; IEEE Conference Proceedings, ISBN 07-7803-3 192-3, Vol. 3, pp. 1415-1418, March 1996
MD		T. Lee, V. Ng, D. McLean, A. Coldman, R. Gallagher and J. Sale, "A Multi-Stage Segmentation Method for Images of Skin Lesions"; IEEE Conference Proceedings on Communication, Computers and Signal Processing, pp. 602-605, February 1995

EXAMINER

Mehrdad Dastani

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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

<i>MD</i>	<i>J</i>	B.F. Jones and P. Plassman, "An Instrument to Measure the Dimensions of Skin Wounds"; IEEE Transactions on Biomedical Engineering, Vol. 42, No. 5, pp. 464-470, May 1995
		R.T.J. Bostock, E. Claridge, A.J. Harget, and P.N. Hall, "Towards A Neural Network Based System For Skin Cancer Diagnosis"; IEEE International Conference on Artificial Neural Networks, pp. 215-219, ISBN 0-85296-573-7, 1993
		M. Herbin, A. Venot, J.Y. Devaux and C. Piette, "Color Quantitation Through Image Processing in Dermatology"; IEEE Transactions on Medical Imaging, Vol. 9, No. 1, pp. 262-269, September 1990
EXAMINER	<i>Mehrdad Dastani</i>	DATE CONSIDERED <i>9/25/99</i>

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 5066-4010	SERIAL NO. 09/032,450
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) <i>2</i>				APPLICANT GUTKOWICZ-KRUSIN et al.	
				FILING DATE February 27, 1998	GROUP ART UNIT 2721

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>MD</i>	5,016,173	05-1991	Kenet et al.	382	128	



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